

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: : PATENT APPLICATION  
Michael S. Misura and Anil Kumar : Group Art Unit:  
Serial No. : Examiner: Not Assigned  
Filed: January 16, 2004 : PPG Case No. 1644D1  
For: ORGANIC PHOTOCHROMIC :  
COMPOSITIONS OF IMPROVED :  
KINETIC PERFORMANCE :

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Sir:

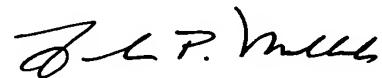
The information in this statement and the attachment hereto is submitted in compliance with the requirements of 37 CFR 1.56(a).

The documents listed in the attached Substitute Form PTO 1449 are brought to the attention of the United States Patent and Trademark Office with respect to the above-identified application in accordance with the provisions of 37 CFR 1.97.

Copies of the documents listed on the attached Form PTO-1449 that are not enclosed herewith were previously cited by or submitted to the Office in Application Serial No. 09/724,145 filed November 28, 2000 and Serial No. 10/172,665 filed June 14, 2002, which is relied upon for an earlier filing date under 35 USC 120.

It is requested that the Examiner consider these documents along with those considered as a result of the Examiner's search, and that they be made of record in the application.

Respectfully submitted,



FRANK P. MALLAK  
SENIOR PATENT AGENT  
Registration No. 36,590

Pittsburgh, Pennsylvania

January 16, 2004

<b>Notice of References Cited</b>	NOV -	Application/Control No. 10/172,665	Applicant(s)/Patent Under Reexamination MISURA ET AL.	
	Examiner Robert-Sellers	Art Unit 1712	Page 1 of 1	

**U.S. PATENT DOCUMENTS**

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-6,057,039	05-2000	Takeshita et al.	428/447
*	B	US-6,268,055	07-2001	Walters et al.	428/413
*	C	US-6,432,544	08-2002	Stewart et al.	428/424.2
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

**FOREIGN PATENT DOCUMENTS**

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

**NON-PATENT DOCUMENTS**

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)  
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

LIST OF CITATIONS BY APPLICANT (Use several sheets if necessary)		Atty. Docket No. 1644P1	Serial No. 10/172,665
		Applicant: Michael S. Misura et al	
		Filing Date: June 14, 2002	Group Art Unit: 1712

## U.S. PATENT DOCUMENTS

Exam. Init.		Document No.	Date	Name	Class	Subclass	Filing Date if appropriate
	AA	3,169,945	02/1965	Hostettler et al	260	78.3	
	AB	3,361,706	01/1968	Meriwether et al	260	39	
	AC	3,562,172	02/1971	Ono et al	252	300	
	AD	3,567,605	03/1971	Becker	204	158	
	AE	3,578,602	05/1971	Ono et al	252	300	
	AF	3,627,690	12/14/71	J.Casella et al	252	300	
	AG	3,707,347	12/26/72	B. M. Mueller	8	4	
	AH	3,860,388	01/14/75	J. M. Haigh	8	2.5	
	AI	3,866,242	02/1975	Slagel	2	2.5	
	AJ	4,215,010	07/1980	Hovey et al	252	300	
	AK	4,238,524	12/09/80	N. U. LaLiberte et al.	427	7	

## FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Subclass	Translation Yes No
	AL	DE 3516568A1	23.01.86	Germany			X
	AM	0177212		WO			
	AN	0034410		WO			
	AO	2129859		France			X
	AP						

## OTHER CITATIONS (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	Ibert Mellan, "Chemical Names of Plasticizers And Their Brand Names", <u>Plasticizer Evaluation and Performance</u> . Noyes Development Corporation, pgs. 140-148, 1967.
AS	David F. Cadogan et al, "Plasticizers", <u>Ullmann's Encyclopedia of Industrial Chemistry</u> . Vol. 20, pgs. 439-458, 1992
AT	"Plasticizers", <u>Modern Plastics Encyclopedia</u> . Mid-November 1998 Issue, Vol. 75, No. 12, pgs. C105-C115.

Examiner	Date Considered
----------	-----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.  
SUBSTITUTE DISCLOSURE STATEMENT FORM (PTO 1449)

Atty. Docket No. 1644P1	Serial No. 10/172,665
<b>LIST OF CITATIONS BY APPLICANT</b> (Use several sheets if necessary)	Applicant: Michael S. Misura et al
	Filing Date: June 14, 2002      Group Art Unit: 1712

**U.S. PATENT DOCUMENTS**

Exam. Init.		Document No.	Date	Name	Class	Subclass	Filing Date if appropriate
	AA	4,271,224	06/02/81	S. Mizuno et al.	428	207	
	AB	4,286,957	09/1981	Le Naour - Sene	8	471	
	AC	4,297,099	10/27/81	M. Simon et al.	8	484	
	AD	4,342,668	08/1982	Hovey et al.	252	586	
	AE	4,360,653	11/1982	Stevens et al	526	301	
	AF	4,719,296	01/1988	Irie et al	544	71	
	AG	4,720,356	01/1988	Chu	252	586	
	AH	4,816,584	03/1989	Kwak et al	344	71	
	AI	4,818,096	04/1989	Heller et al	351	163	
	AJ	4,826,977	05/1989	Heller et al	544	70	
	AK	4,880,667	11/1989	Welch	427	160	

**FOREIGN PATENT DOCUMENTS**

		Document No.	Date	Country	Class	Subclass	Translation Yes No
	AL						
	AM						
	AN						
	AO						
	AP						

**OTHER CITATIONS (Including Author, Title, Date, Pertinent Pages, Etc.)**

AR	Glenn H. Brown, Editor, "Photochromism", <u>Techniques in Chemistry</u> , Volume III, Chapter 3, John Wiley and Sons, Inc., New York, 1971.
AS	"Coatings", Kirk-Othmer <u>Encyclopedia of Chemical Technology</u> , Fourth Edition, Volume 6, pgs. 669-760, Robert F. Brady, Jr. et al.
AT	U.S. Patent Application Serial No. 09/499,054 filed on February 4, 2000.

Examiner	Date Considered
----------	-----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.  
SUBSTITUTE DISCLOSURE STATEMENT FORM (PTO 1449)

Atty. Docket No. 1644P1	Serial No. 10/172,665
LIST OF CITATIONS BY APPLICANT (Use several sheets if necessary)	Applicant: Michael S. Misura et al
	Filing Date: June 14, 2002      Group Art Unit: 1712

## U.S. PATENT DOCUMENTS

Exam. Init.		Document No.	Date	Name	Class	Subclass	Filing Date if appropriate
	AA	4,931,219	06/1990	Kwiatkowski et al	252	586	
	AB	4,931,220	06/1990	Haynes et al	252	586	
	AC	4,994,208	02/1991	McBain et al	252	586	
	AD	5,066,818	11/1991	Gemert et al	549	389	
	AE	5,166,345	11/1992	Akashi et al	544	71	
	AF	5,185,390	02/1993	Fischer et al	524	43	
	AG	5,200,883	04/1993	Kobayashi	361	395	
	AH	5,236,958	08/1993	Miyashita	518	121	
	AI	5,238,981	08/1993	Knowles	524	110	
	AJ	5,274,132	12/1993	VanGemert	549	389	
	AK	5,252,742	10/1993	Miyashita	548	121	

## FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Subclass	Translation Yes      No
	AL						
	AM						
	AN						
	AO						
	AP						

## OTHER CITATIONS (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	
AS	
AT	

Examiner	Date Considered
----------	-----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.  
SUBSTITUTE DISCLOSURE STATEMENT FORM (PTO 1449)

Atty. Docket No. 1644P1	Serial No. 10/172,665
<b>LIST OF CITATIONS BY APPLICANT</b> (Use several sheets if necessary)	Applicant: Michael S. Misura et al
	Filing Date: June 14, 2002

**U.S. PATENT DOCUMENTS**

Exam. Init.		Document No.	Date	Name	Class	Subclass	Filing Date if appropriate
	AA	5,359,085	10/1994	Iwamoto et al	548	468	
	AB	5,373,033	12/1994	Toh et al	522	96	
	AC	5,384,077	01/1995	Knowles	252	586	
	AD	5,391,327	02/1995	Ligas et al	252	586	
	AE	5,395,566	03/1995	Kobayakawa et al	252	586	
	AF	5,405,958	04/1995	VanGemert	544	71	
	AG	5,429,774	07/1995	Kumar	252	586	
	AH	5,458,814	10/1995	Kumar et al	252	586	
	AI	5,462,698	10/1995	Kobayakawa et al	252	586	
	AJ	5,466,398	11/1995	Van Gemert et al	252	586	
	AK	5,475,074	12/1995	Matsuoka et al	526	336	

**FOREIGN PATENT DOCUMENTS**

		Document No.	Date	Country	Class	Subclass	Translation Yes No
	AL						
	AM						
	AN						
	AO						
	AP						

**OTHER CITATIONS (Including Author, Title, Date, Pertinent Pages, Etc.)**

AR	
AS	
AT	

Examiner	Date Considered
----------	-----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.  
 SUBSTITUTE DISCLOSURE STATEMENT FORM (PTO 1449)

		Atty. Docket No. 1644P1	Serial No. 10/172,665
LIST OF CITATIONS BY APPLICANT (Use several sheets if necessary)		Applicant: Michael S. Misura et al	
		Filing Date: June 14, 2002.	

## U.S. PATENT DOCUMENTS

Exam. Init.		Document No.	Date	Name	Class	Subclass	Filing Date if appropriate
	AA	5,488,119	01/1996	Fischer-Reimann et al	552	201	
	AB	5,514,817	05/1996	Knowles	549	384	
	AC	5,552,090	09/1996	Van Gemert et al	252	586	
	AD	5,552,091	09/1996	Kumar	252	586	
	AE	5,565,147	10/1996	Knowles et al	252	586	
	AF	5,573,712	11/1996	Kumar et al	252	586	
	AG	5,578,252	11/1996	Van Gemert et al	252	586	
	AH	5,621,017	04/1997	Kobayakawa et al	522	16	
	AI	5,637,262	06/1997	Van Gemert et al	252	586	
	AJ	5,645,767	07/1997	Van Gemert	252	586	
	AK	5,656,206	08/1997	Knowles et al	252	586	

## FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Subclass	Translation Yes      No
	AL						
	AM						
	AN						
	AO						
	AP						

## OTHER CITATIONS (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	
AS	
AT	

Examiner	Date Considered
----------	-----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.  
SUBSTITUTE DISCLOSURE STATEMENT FORM (PTO 1449)

		Atty. Docket No. 1644P1	Serial No. 10/172,665
<b>LIST OF CITATIONS BY APPLICANT</b> (Use several sheets if necessary)		Applicant: Michael S. Misura et al	
		Filing Date: June 14, 2002	

**U.S. PATENT DOCUMENTS**

Exam. Init.		Document No.	Date	Name	Class	Subclass	Filing Date if appropriate
	AA	5,658,500	08/1997	Kumar et al	252	586	
	AB	5,658,501	08/1997	Kumar et al	252	586	
	AC	5,674,432	10/1997	Knowles et al	252	586	
	AD	5,698,141	12/1997	Kumar	252	586	
	AE	5,753,146	05/1998	Van Gemert et al	252	586	
	AF	5,770,115	06/1998	Misura	252	586	
	AG	5,776,376	07/1998	Nagoh et al	252	586	
	AH	5,789,015	08/1998	Gupta et al	427	162	
	AI	5,811,506	09/1998	Slagel	528	64	
	AJ	5,879,591	03/1999	Nagoh et al	252	586	
	AK	5,962,617	10/1999	Slagel	528	61	

**FOREIGN PATENT DOCUMENTS**

		Document No.	Date	Country	Class	Subclass	Translation Yes No
	AL						
	AM						
	AN						
	AO						
	AP						

**OTHER CITATIONS (Including Author, Title, Date, Pertinent Pages, Etc.)**

AR	
AS	
AT	

Examiner	Date Considered
----------	-----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.  
SUBSTITUTE DISCLOSURE STATEMENT FORM (PTO 1449)

Atty. Docket No. 1644P1	Serial No. 10/172,665
<b>LIST OF CITATIONS BY APPLICANT</b> (Use several sheets if necessary)	Applicant: Michael S. Misura et al
	Filing Date: June 14, 2002      Group Art Unit: 1712

**U.S. PATENT DOCUMENTS**

Exam. Init.		Document No.	Date	Name	Class	Subclass	Filing Date if appropriate
	AA	5,962,619	10/1999	Seneker et al	528	64	
	AB	5,965,630	10/1999	Imafuku et al	523	106	
	AC	5,965,631	10/1999	Nicolson et al	523	106	
	AD	5,975,696	11/1999	Kohan	351	177	
	AE	5,989,573	11/1999	Remy	424	401	
	AF						
	AG						
	AH						
	AI						
	AK						

**FOREIGN PATENT DOCUMENTS**

		Document No.	Date	Country	Class	Subclass	Translation Yes      No
	AL						
	AM						
	AN						
	AO						
	AP						

**OTHER CITATIONS (Including Author, Title, Date, Pertinent Pages, Etc.)**

AR	
AS	
AT	

Examiner	Date Considered
----------	-----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.  
SUBSTITUTE DISCLOSURE STATEMENT FORM (PTO 1449)